



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Alexandra M. Carni	Project Number J1405
Project Title Aspirin's Sweetest Friend	
Abstract Objectives/Goals My objective was to see if the presence of a carbohydrate (starch, complex sugar, fiber) affect the absorption rate of a Bayer Aspirin tablet. I hypothesized that there would be no significant change or difference with the presence of the carbohydrate. Methods/Materials My method of testing was done by submerging the plastic membrane filled with the aspirin, carbohydrate and stomach solution into a beaker of distilled water. I checked the pH of the water in even increments of twenty seconds for two minutes and recorded the data. This inferred that the aspirin was diffusing into the water because aspirin is acidic so that will allow the pH to drop. Results I found that the sugar had the quickest average of diffusion, in second came the aspirin with no carbohydrate, third came the starch which was followed by the fiber. Surprisingly the pH rose with the presence of the starch and fiber although it was a very small amount. I still haven't been able to determine why this occurred. Conclusions/Discussion I conclude that my hypothesis was correct by there being no significant change in the absorption rate of the Bayer Aspirin tablet with the carbohydrate's presence. I believe this happened because the carbohydrate is not absorbed in the stomach like the aspirin is.	
Summary Statement I'm testing to see if the presence of a carbohydrate affect the absorption rate of a Bayer Aspirin Tablet.	
Help Received I received help from Marybeth Fenton who helped me with develop the testing process. My mother help me put my board together.	